

LOCAL CLIMATOLOGICAL DATA

Monthly Summary

August 2008

Station: Westford
 Latitude: 44° 37' 39" N Longitude: 73° 02' 29" W Elevation (Ground): 850 feet Time Zone: Eastern

Date	Temperature					Humidity Mean	Deg. Days		Precip Ty 1 fog 2 hvy fog 3 thunder 4 ice plt 5 hail 6 glaze 7 duststm 8 smk, hz 9 blw snw	Snow Cvr	Precip		Pressure Adj. to Sea Level			Wind						Sun Mean Index	
	Maximum	Minimum	Average	Mean	Dew Point		Heating Base 65°F	Cooling Base 65°F			Water Equivalent	Ice Pellets Snow	Maximum	Minimum	Mean	Avg Speed	Res Speed	Res Dir	Peak		Minute		
																			Speed	Dir	Speed		Dir	Speed	Dir
1	2	3	4A	4B	5	6	7	8		11	12	13	14	15	16	17	18	19	20	21	22	23	
1	81.2	61.6	71.4*	69.5	64	84	0	7	..3.....	0	0.14	0.0	29.68	29.57	29.624	1.4	1.3	247	16	W	10	258	
2	77.4	58.6	68.0	65.8	62	89	0	3	..3.....	0	0.24	0.0	29.71	29.65	29.674	0.7	0.5	228	13	W	8	277	
3	67.5	61.3	64.4	63.5	62	95	0	0	.....	0	0.65	0.0	29.81	29.70	29.757	1.0	1.0	300	13	WSW	7	284
4	75.9	59.0	67.5	65.9	62	88	0	3	.....	0	0.01	0.0	29.92	29.81	29.868	0.9	0.8	329	13	W	8	284
5	80.1	55.3	67.7	66.3	62	87	0	3	.....	0	0.00	0.0	29.96	29.83	29.913	0.4	0.3	331	9	W	5	276
6	75.6	60.5	68.0	66.3	63	89	0	4	..3.....	0	0.21	0.0	29.83	29.67	29.720	1.1	0.6	201	15	W	7	277	
7	77.3	55.9	66.6	65.0	61	88	0	2	.....	0	0.04	0.0	29.72	29.63	29.680	1.0	0.6	211	13	S	7	238
8	71.0	58.1	64.5	62.8	60	90	0	0	.....	0	0.33	0.0	29.65	29.60	29.628	0.6	0.5	242	11	S	6	279
9	75.0	52.6	63.8	63.4	58	84	1	0	.....	0	0.27	0.0	29.84	29.65	29.762	1.0	0.9	283	11	W	7	287
10	76.9	49.6	63.3	60.9	56	86	1	0	..3.....	0	0.03	0.0	29.88	29.82	29.851	0.5	0.3	161	15	S	8	197	
11	70.6	56.1	63.3	62.2	59	89	1	0	..3.....	0	0.20	0.0	29.87	29.74	29.808	0.5	0.1	290	9	SSW	5	205	
12	75.1	58.5	66.8	63.8	59	86	0	2	.....	0	0.03	0.0	29.74	29.66	29.707	1.3	1.2	297	15	NW	9	294
13	73.4	53.2	63.3	62.6	56	80	2	0	.....	0	0.00	0.0	29.78	29.72	29.753	1.2	1.1	214	14	SSW	7	189
14	76.2	52.1	64.1	63.5	57	81	1	0	.2.....	0	0.00	0.0	29.88	29.76	29.803	0.7	0.6	308	14	WNW	9	287	
15	75.8	51.0	63.4	62.7	57	83	1	0	.....	0	T	0.0	29.99	29.88	29.945	0.5	0.4	220	9	SW	5	292
16	77.6	53.1	65.3	64.8	57	78	0	1	.....	0	0.00	0.0	29.98	29.79	29.882	0.9	0.8	270	14	W	6	272
17	77.7	56.7	67.2	65.6	60	82	0	3	.....	0	0.00	0.0	29.84	29.79	29.813	2.1	1.9	211	15	SSW	9	200
18	81.5	59.8	70.6	68.7	63	83	0	6	..3.....	0	0.58	0.0	29.85	29.71	29.792	3.6	3.4	198	29	WNW	11	291	
19	63.1	53.3	58.2	57.9	53	83	7	0	.....	0	0.30	0.0	30.10	29.75	29.938	1.8	1.5	316	18	W	12	297
20	69.9	46.7	58.3	58.2	50	77	6	0	.....	0	0.00	0.0	30.19	30.10	30.147	1.7	1.6	297	20	W	13	295
21	78.7	49.9	64.3	62.9	55	77	0	0	.....	0	0.00	0.0	30.25	30.18	30.219	1.0	0.9	202	13	S	6	195
22	83.4*	52.4	67.9	67.1	59	79	0	3	.....	0	0.00	0.0	30.32	30.24	30.273	0.9	0.9	198	15	S	8	208
23	81.1	61.7	71.4	70.4	60	72	0	7	.....	0	0.00	0.0	30.26	30.06	30.174	3.0	3.0	194	18	SSW	9	195
24	81.9	61.2	71.6	71.0	62	74	0	7	.....	0	0.03	0.0	30.06	29.77	29.913	4.1	4.1	193	20	S	10	194
25	68.8	51.7	60.3	62.2	57	82	4	0	.....	0	0.08	0.0	29.97	29.74	29.851	3.2	2.6	280	21	WNW	13	276
26	68.0	44.4*	56.2*	56.4	49	78	9	0	.....	0	0.00	0.0	30.11	29.96	30.048	1.3	1.2	310	18	W	11	284
27	77.3	45.1	61.2	62.8	55	78	4	0	.....	0	0.00	0.0	30.14	30.05	30.097	0.7	0.7	294	13	W	9	277
28	80.2	52.1	66.1	64.5	58	81	0	1	.....	0	0.00	0.0	30.09	29.98	30.035	0.4	0.3	161	10	ESE	6	186
29	74.3	54.8	64.6	65.3	58	78	0	0	.....	0	0.00	0.0	30.00	29.90	29.947	2.0	1.9	195	17	S	10	208
30	79.3	59.0	69.2	67.7	62	82	0	4	.....	0	T	0.0	29.99	29.90	29.932	1.8	1.4	222	12	S	6	198
31	75.8	55.9	65.9	64.5	56	74	0	1	.....	0	0.00	0.0	30.13	29.99	30.080	2.0	1.9	299	17	WNW	12	289
Sum	Sum	-----	-----	---	----	Ttl	Ttl	Number of Days		For the month:													---
2348	1701					37	57			3.14	0.0	30.32	29.57	29.891	1.4	0.8	240	29	WNW	13	276		
Avg	Avg	Avg	Mean	Avg	Avg	----	----	Precip		Season Ttl	Date	Date	-----	----	----	----	Date	Date	Avg				
75.7	54.9	65.3	64.3	58	82.4	----	----	≥.01 inch		15	31.81	0.0	22	1	-----	----	----	---	18	25			
Number of Days						Season to Date	Snow, Ice ≥1.0 inch	0	Greatest in 24 Hours and Dates						Greatest Depth on Ground of Snow, Ice Pellets or Ice and Date								
Max Temperature			Min Temperature			47	279	Thunder	6	Precipitation			Snow, Ice Plts										
≥ 90°F	≤ 32°F	≤ 32°F	≤ 0°F	----	----	Heavy Fog	1	0.88	18-19	0.0	-	0						-					
0	0	0	0	----	----	Clear	5	Partly Cloudy			17	Cloudy			9								

NOTES:
 Units are: Temperature=°F, Wind=mph, Pressure=Inches Hg, Precipitation=inches.
 Data in column 4A are (MAX+MIN) ÷ 2, whereas columns 4B, 5, 6, 15, 16, 23 are means via continuous observations for 24 hours.
 Column 5: Dew point is calculated from temperature and humidity and is continuously averaged for 24 hours.
 Data in columns 9, 10, 12 are entered manually by the station observer.
 Columns 17-18: Resultant wind is calculated by the vector sum of continuous wind observations.
 Column 23: Sunshine index is measured in Watts/m² and is continuously averaged for 24 hours.
 Data in columns 4B, 5, 6, 15, 16, 23 are updated continuously, there by achieving a "true" mean.

**OBSERVATIONS AT 3-HOUR INTERVALS
August 2008: Westford**

Hour	Sunshine	Pressure	Rainfall rate	Temperature	Dew Point	Wind			Sunshine	Pressure	Rainfall rate	Temperature	Dew Point	Wind			Sunshine	Pressure	Rainfall rate	Temperature	Dew Point	Wind				
						Humidity	Direction	Speed						Humidity	Direction	Speed						Humidity	Direction	Speed		
AUG 01									AUG 02									AUG 03								
01		29.58	0.00	65	63	93	19	2	5	29.65	0.00	62	60	95	22	0	0	29.70	0.00	62	61	95	29	0	5	
04		29.59	0.00	64	62	93	19	0	0	29.66	0.00	59	57	95	22	0	0	29.70	0.00	62	61	96	30	0	6	
07		29.62	0.00	65	63	95	18	0	2	29.67	0.00	62	61	96	20	0	0	29.73	0.00	62	61	96	29	3	10	
10		29.63	0.00	71	65	81	24	3	10	29.68	0.00	74	66	76	22	6	10	29.76	0.00	64	63	96	02	0	1	
13		29.64	0.00	77	65	67	26	3	7	29.67	0.00	74	68	82	21	1	5	29.78	0.00	65	63	95	29	2	8	
16		29.63	0.00	80	69	70	27	2	12	29.66	0.17	69	64	84	27	2	10	29.77	0.04	65	64	94	29	2	12	
19		29.62	0.00	73	66	78	01	0	2	29.70	0.14	64	62	93	28	3	11	29.78	0.00	66	64	93	29	0	5	
22		29.67	0.00	63	60	93	17	0	2	29.70	0.00	61	60	95	14	0	1	29.81	0.00	62	60	94	05	0	0	
AUG 04									AUG 05									AUG 06								
01		29.82	0.00	64	62	96	32	1	3	29.93	0.00	58	56	95	04	0	0	29.81	0.00	65	63	91	14	0	6	
04		29.81	0.00	62	61	96	34	0	2	29.93	0.00	57	55	96	04	0	0	29.75	0.00	66	62	87	18	2	7	
07		29.84	0.00	63	61	96	34	1	5	29.96	0.00	60	58	96	04	0	0	29.71	0.00	64	62	94	18	1	7	
10		29.88	0.00	66	63	89	30	1	6	29.95	0.00	66	64	92	26	0	3	29.70	0.00	67	64	90	14	1	7	
13		29.89	0.00	69	63	81	01	2	7	29.93	0.00	78	69	74	29	2	6	29.69	0.00	69	65	85	16	2	9	
16		29.88	0.00	74	63	69	00	2	7	29.90	0.00	74	65	75	03	0	1	29.67	0.00	70	63	79	00	1	7	
19		29.89	0.00	70	63	79	35	0	7	29.86	0.00	73	67	83	35	0	0	29.70	0.00	66	63	91	26	0	1	
22		29.92	0.00	60	58	94	04	0	0	29.86	0.00	64	61	91	06	0	1	29.71	0.00	62	60	94	20	0	2	
AUG 07									AUG 08									AUG 09								
01		29.72	0.00	60	57	93	25	0	2	29.64	0.00	59	58	95	18	0	0	29.65	0.22	60	59	96	18	0	1	
04		29.69	0.00	58	56	95	19	0	0	29.63	0.00	58	57	95	18	0	0	29.68	0.00	58	57	95	26	0	2	
07		29.69	0.00	60	59	96	18	0	3	29.63	0.00	60	58	96	18	0	0	29.73	0.00	60	58	96	26	0	3	
10		29.71	0.00	69	63	81	23	3	7	29.64	0.00	65	62	90	15	1	6	29.78	0.00	64	58	80	29	3	7	
13		29.67	0.00	76	64	67	21	3	7	29.61	0.00	69	63	80	24	1	6	29.79	0.00	71	59	66	26	0	4	
16		29.65	0.00	72	63	74	04	1	5	29.61	0.00	69	64	84	32	0	3	29.79	0.00	75	58	56	28	6	11	
19		29.66	0.00	65	63	92	18	1	4	29.62	0.00	62	59	92	23	0	2	29.81	0.00	68	60	74	03	0	0	
22		29.68	0.00	61	60	94	20	1	4	29.64	0.00	60	59	95	23	0	0	29.84	0.00	55	53	93	03	0	0	
AUG 10									AUG 11									AUG 12								
01		29.83	0.00	52	50	95	03	0	0	29.86	0.00	57	55	95	11	0	0	29.73	0.00	59	57	94	18	0	2	
04		29.84	0.00	51	49	95	03	0	0	29.83	0.00	58	56	95	08	0	0	29.70	0.00	60	59	95	29	0	4	
07		29.85	0.00	52	51	96	04	0	0	29.84	0.00	58	57	96	09	0	0	29.71	0.00	60	59	96	33	0	1	
10		29.86	0.00	70	62	77	07	0	5	29.84	0.00	62	59	88	03	0	4	29.73	0.00	64	59	85	29	4	10	
13		29.84	0.00	76	58	54	20	1	6	29.82	0.00	69	61	76	03	0	3	29.70	0.00	72	64	77	28	2	6	
16		29.85	0.00	68	59	72	20	1	5	29.78	0.00	70	63	78	26	2	4	29.68	0.00	69	59	70	06	0	2	
19		29.85	0.00	62	59	89	07	0	4	29.76	0.00	68	62	83	29	0	3	29.70	0.00	66	60	80	30	0	5	
22		29.87	0.00	59	57	94	09	0	0	29.76	0.00	60	59	94	17	0	0	29.72	0.00	59	56	90	28	0	2	
AUG 13									AUG 14									AUG 15								
01		29.73	0.00	59	54	84	24	0	2	29.78	0.00	57	55	93	19	0	1	29.89	0.00	53	51	94	18	0	1	
04		29.73	0.00	55	52	91	16	1	5	29.77	0.00	55	53	95	19	0	0	29.90	0.00	52	51	95	19	1	3	
07		29.76	0.00	55	53	94	19	2	7	29.79	0.00	58	56	96	02	0	1	29.93	0.00	54	53	96	21	0	0	
10		29.77	0.00	67	59	75	16	0	11	29.81	0.00	69	62	77	32	0	4	29.97	0.00	71	60	68	20	1	4	
13		29.77	0.00	72	55	55	16	1	7	29.80	0.00	70	59	68	31	0	12	29.96	0.00	74	59	61	21	0	6	
16		29.75	0.00	71	57	63	26	1	2	29.79	0.00	75	59	58	01	1	6	29.95	0.00	74	60	61	19	1	7	
19		29.74	0.00	64	60	87	14	0	0	29.82	0.00	70	58	67	02	0	2	29.96	0.00	67	61	81	18	2	5	
22		29.78	0.00	60	57	90	19	0	3	29.86	0.00	54	52	93	02	0	0	29.98	0.00	59	57	93	19	0	0	
AUG 16									AUG 17									AUG 18								
01		29.97	0.00	57	55	93	19	0	0	29.80	0.00	62	57	85	19	2	8	29.85	0.00	61	58	90	19	0	2	
04		29.94	0.00	54	52	95	19	0	0	29.80	0.00	58	55	90	19	3	7	29.84	0.00	61	59	93	19	2	7	
07		29.93	0.00	54	52	95	19	0	0	29.81	0.00	59	56	90	19	5	10	29.83	0.00	62	60	92	19	4	11	
10		29.92	0.00	69	60	74	12	0	3	29.82	0.00	69	60	74	22	2	10	29.83	0.00	73	66	79	19	4	15	
13		29.88	0.00	74	57	55	29	2	11	29.82	0.00	72	63	75	23	3	13	29.77	0.00	78	66	65	21	8	16	
16		29.81	0.00	77	59	54	29	1	8	29.80	0.00	75	64	70	26	2	7	29.72	0.00	81	69	66	20	4	16	
19		29.79	0.00	74	61	65	29	0	2	29.81	0.00	73	64	73	26	0	1	29.73	0.00	70	66	88	19	0	4	
22		29.82	0.00	62	56	81	21	1	3	29.84	0.00	61	58	91	22	0	0	29.79	0.06	62	60	94	19	1	7	

MAXIMUM SHORT DURATION PRECIPITATION

Time Period (minutes)	5	10	15	20	30	45	60	80	100	120	150	180
Precipitation	0.13	0.18	0.18	0.19	0.20	0.20	0.23	0.30	0.32	0.33	0.41	0.49
Ended: Date	11	11	11	11	11	09	18	18	18	18	18	18
Ended: Time	1341	1345	1345	1353	1400	0110	2222	2242	2253	2308	2222	2245

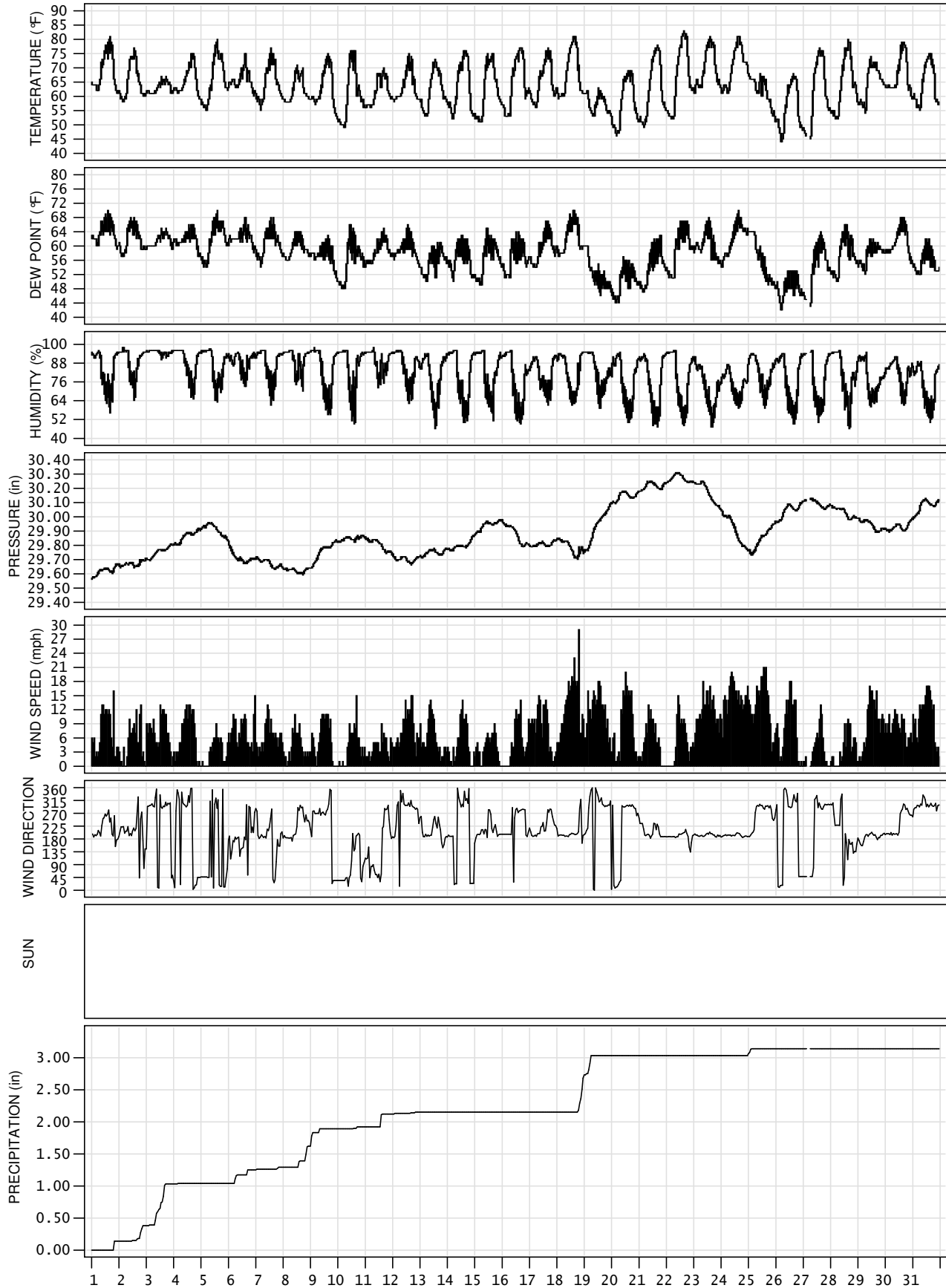
The precipitation amounts may occur at any time during the month. The time indicated is the ending time of the interval. Date and time are not entered for trace amounts.

HOURLY PRECIPITATION (Water Equivalent) August 2008: Westford

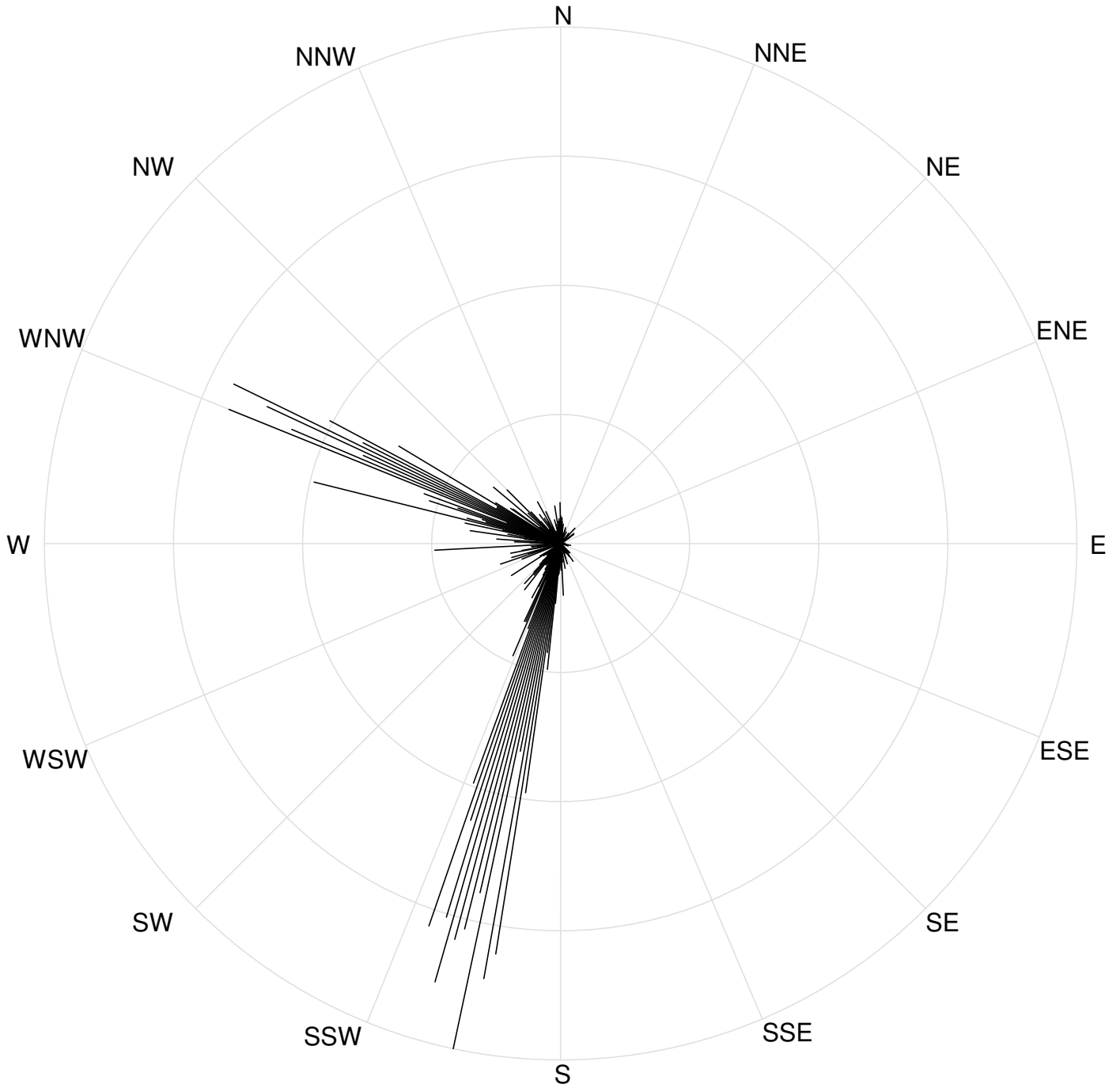
Date	A.M. Hour Ending at												P.M. Hour Ending at												Date
	01	02	03	04	05	06	07	08	09	10	11	12	01	02	03	04	05	06	07	08	09	10	11	12	
01																								01	
02												0.01							0.14					02	
03			0.01					0.07	0.11	0.03	0.03	0.02	0.09	0.01	0.09	0.02	0.01		0.09	0.06	0.05			03	
04				0.01																				04	
05																								05	
06						0.07	0.05	0.01								0.08								06	
07	0.01																	0.01	0.02					07	
08														0.09	0.01				0.10	0.12	0.01			08	
09	0.16	0.05						0.06																09	
10														0.01			0.02							10	
11														0.19	0.01									11	
12		0.01														0.01				0.01				12	
13																								13	
14																								14	
15																								15	
16																								16	
17																								17	
18																			0.03	0.11	0.07	0.15	0.17	0.05	18
19		0.02		0.06	0.10	0.12																		19	
20																								20	
21																								21	
22																								22	
23																								23	
24																							0.03	24	
25	0.02	0.05	0.01																					25	
26																								26	
27																								27	
28																								28	
29																								29	
30																								30	
31																								31	
Sum	0.19	0.13	0.02	0.07	0.10	0.19	0.05	0.14	0.11	0.03	0.03	0.03	0.09	0.30	0.11	0.20	0.13	0.00	0.13	0.44	0.24	0.16	0.17	0.08	Sum

During a frozen precipitation event, hourly precipitation totals may not be recorded. In this case, daily amounts are typically entered in the last column (hour ending at 12 A.M.)

HOUR-BY-HOUR DATA August 2008: Westford



Wind Rose: August 2008
Westford



Maximum direction of wind: 42.5 miles from 192°.
1034.0 total miles of wind.